

WHAT IS CLAIMED:

1. For use in a video game apparatus having a processing system including a main processing unit and picture processing circuitry for displaying images on a display screen, and user control keys for a user to provide control signals to said processing system, said video game apparatus including a port for receiving a removable device for providing enhanced functionality to said video game apparatus, said removable device comprising:

processing circuitry for accessing compressed video data from a high capacity storage device storing compressed video data for decompressing said video data and for transferring said video data for display on said display screen of said video game apparatus.

2. A removable device according to claim 1, wherein said video data is stored on a CD ROM which is operatively coupled to said processing circuitry.

3. A removable device according to claim 1, wherein said video data is stored on an optical disk which is operatively coupled to said processing circuitry.

4. A removable device according to claim 1, wherein said video data is stored on a read-only memory which is operatively coupled to said processing circuitry.

5. A removable device according to claim 1, wherein said removable device is housed in a cartridge which is removably connectable to said video game apparatus.

6. A removable device according to claim 1, further including security processing circuitry for performing security-related processing operations.

7. A removable device according to claim 1, wherein said processing circuitry includes:

a cache controller, and
a cache memory coupled to said cache controller,
wherein the processing circuitry executes
instructions stored in said cache memory.

8. A removable device according to claim 1, further including an instruction bus, an arithmetic and logic unit, coupled to said instruction bus, for executing instructions, and a cache memory being coupled to said instruction bus and being operable to output instructions to said instruction bus.

9. For use in a video game apparatus having a processing system including a main processing unit and picture processing circuitry for displaying images on a display screen, a video RAM for storing display related information and user control keys for a user to provide control signals to said processing system, said video game apparatus including a port for receiving a removable device for providing enhanced functionality to said video game apparatus, said removable device comprising:

processing circuitry for accessing compressed video data from a high capacity storage device storing compressed video data for decompressing said video data and for transferring said video data for display on said display screen of said video game apparatus, said processing circuitry being operable to transfer video information to said processing system for transfer to said video RAM.

10. A removable device according to claim 9, wherein said video data is stored on a CD ROM which is operatively coupled to said processing circuitry.

11. A removable device according to claim 9, wherein said video data is stored on an optical disk

which is operatively coupled to said processing circuitry.

12. A removable device according to claim 9, wherein said video data is stored on a read-only memory which is operatively coupled to said processing circuitry.

13. A removable device according to claim 9, wherein said removable device is housed in a cartridge which is removably connectable to said video game apparatus.

14. A removable device according to claim 9, further including security processing circuitry for performing security-related processing operations.

15. A removable device according to claim 9, wherein said processing circuitry includes:

a cache controller, and
a cache memory coupled to said cache controller,
wherein the processing circuitry executes instructions stored in said cache memory.

16. For use in an information processing apparatus having a processing system including a main processing unit and picture processing circuitry for displaying images on a display screen, a video RAM

for storing display related information and user control keys for a user to provide control signals to said processing system, said information processing apparatus including a port for receiving a removable device for providing enhanced functionality to said information processing apparatus, said removable device comprising:

processing circuitry for accessing compressed video data from a high capacity storage device storing compressed video data for decompressing said video data and for transferring said video data for display on said display screen of said information processing apparatus, said processing circuitry being operable to transfer video information to said processing system for transfer to said video RAM.

17. A removable device according to claim 16, wherein said video data is stored on a CD ROM which is operatively coupled to said processing circuitry.

18. A removable device according to claim 16, wherein said video data is stored on an optical disk which is operatively coupled to said processing circuitry.

19. A removable device according to claim 16,

wherein said video data is stored on a read-only memory which is operatively coupled to said processing circuitry.

20. A removable device according to claim 16, wherein said removable device is housed in a cartridge which is removably connectable to said video game apparatus.

21. A removable device according to claim 16, further including security processing circuitry for performing security-related processing operations.

22. A removable device according to claim 16, wherein said processing circuitry includes:

- a cache controller, and
- a cache memory coupled to said cache controller,

wherein the processing circuitry executes instructions stored in said cache memory.